

## ABSTRACT

An object of the present invention is to provide an ultrasonic urinary volume sensor capable of estimating a urinary volume in the bladder accurately corresponding to any particular individuals and/or conditions thereof by incorporating a space time series processing method allowing for an accurate estimation of the urinary volume in the bladder in association with the particular individuals and/or conditions thereof. An ultrasonic urinary volume sensor of the present invention comprises: a probe 1 having a plurality of ultrasonic oscillators 3 for oscillating ultrasonic waves toward a wall surface of the bladder, which is adhesively placed over a body surface in an abdominal section via an ultrasonic wave transmission medium interposed therebetween; and a processing section 2 for detecting and processing reflective echoes of the ultrasonic waves from the wall surface of the bladder, which have been oscillated by the plurality of ultrasonic oscillators 3 of the probe 1, wherein the plurality of ultrasonic oscillators 3 is disposed along a direction of expansion of the bladder.